تجميع لاختبار الإعادة جامعة الامام محمد بن سعود تخصص علوم حاسب 11 / 0/ 1331

كان كله اختياري من ٥٠ سؤال من المواد التاليه:

- Discrete math(5 questions)
- Programming (6 questions)
- Data structure (6 questions)
- Software engineer (5 questions)
- Operating system (5 question)
- Database (7 questions)
- Network (6 questions)
- Network security (5 questions)
- Artificial intelligence (5 questions)

Discrete math

1- Which of the following statements is the negation of the statements "no student is present" is: A. Students are present. B. no student is absent. C. D. 2- which is not valid statement? A. В. C. D. 3- which is correct about sets: A. |A-B| = |B-A|B. A-B = B-AC. D. 4-P(AUBUC) =A. $P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C)$ $P(A \cap B \cap C)$. B. $P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C) +$ $P(A \cap B \cap C)$. C. D. فكرت السؤال ان الطلاب عندهم سؤال فيه اربع اختيارات، والإجابة ممكن) -5 تكون اكثر من خيار، كم عدد الاحتمالات اللي ممكن تكون إجابة صحيحه بشرط انه (مایخلیه فاضی) 1- 15 2-10 3-64

Programming

1- What is the output of the following program:

```
public class Test{
    public static void main(String args[]){
        String s1 = new String("Hello");
        String s2 = new String("Hellow");
        System.out.println(s1 = s2);
    }
}
```

- A. Hello
- B. Hellow
- C. Compilation error
- **D.** Throws an exception

2- What is the output of the following program:

```
public class testmeth
{
    static int i = 1;
    public static void main(String args[])
    {
        System.out.println(i+", ");
        m(i);
        System.out.println(i);
    }
    public void m(int i)
    {
        i += 2;
    }
}
```

- A. 1,3
- B. 3,1
- C. 1,1
- D. 1,0

Reason: Parameter values are passed by value in the calling of a method, and so a copy of the value is created in the method, and the original value is not affected by the method call.

2- When you pass an array to a method, the method receives .

- A. A copy of the array.
- B. A copy of the first element.
- C. The reference of the array.
- D. The length of the array.

3- Which of the following statements is correct about constructors

- A. A constructor must be declared as public.
- B. A constructor cannot be overloaded.
- C. we can named different of Class name.
- D. use to Create Object

4- to prevent any method from overriding we declare the method as:

- A. Abstract
- B. Static
- C. Final
- D. const

Reason: Final methods of the base class cannot be overridden in the derived Class.

5- Submarine. Dive(depth):

A. Dive must be method

- B. Dive must be name of an instance field.
- C. Submarine must be method.
- D. Submarine must be the name of class.

Reason: The other choices can be allowed, but not 'must'

Data structure

ا ـ جا ثلاث أكواد اطلع منهم big O notation

٤ - جا سؤالين عن السيرش

كانو جايبين جدول فيه أرقام ومحددين رقم بنهاية الجدول (كان ٥٧) وعليه سؤ الين

تقريباً الجدول كان زي كذا:

Ī	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
-					-			,			10			10	57

السؤال الأول كان عن الباينري سيرش (Binary search): كيف رح يوصل للرقم ٧٥

- يمر بكم أندكس ؟

وحاطين خيارات ولكن الجواب الصح ان الباينري رح تقسم الأري بالنص وتقارن.

السؤال الثاني كان عن اللينير سيرش (Linear Search): كيف رح يوصل للرقم ٥٧ه

- يمر بكم أندكس ؟

اللينير رح تمر بكل الاندكس لين توصل للجواب.

6- how many queue required for implement stack?

- A. None.
- B. One queue
- C. Two queue
- D. Three queue

Software engineer

1- If requirements are easily understandable and defined then which model is best suited?

- A. Spiral model
- B. Waterfall model
- C. Prototyping model
- D. None of the above

2- UML Standard for:

- A. Uniform Modeling Language
- B. Unified Modeling Language

C.

D.

3- Which not in software life cycle

- coding
- maintenance
- Testing
- Abstraction

4- Which one of the following is not functional requirement

- A. product feature
- B. performance
- C. stability
- D.

5- Which of the following term describes testing?

(السؤال ما جا كذا بالضبط ولكن نفس فكرته)

- a) Finding broken code
- b) Evaluating deliverable to find errors
- c) A stage of all projects
- d) None of the mentioned

Operating system

- 1- The Hardware mechanism that enables a device to notify the CPU is called ______.
- A. Polling
- B. Interrupt
- C. System Call
- D. None of the above
- 2- A major problem with priority scheduling is
- A. Definite blocking
- B. Starvation
- C. Low priority
- D. None of the above

3- Which directory implementation is used in most Operating System?

- A. Single level directory structure
- B. Two level directory structure
- C. Tree directory structure
- D. Acyclic directory structure

4- Thrashing occurs _____.

- A. when excessive swapping takes place
- B. when you thrash your computer
- C. whenever deadlock occurs
- D. when no swapping takes place
- 5- In one of the deadlock prevention methods, impose a total ordering of all resource types, and require that each process requests resources in an increasing order of enumeration. This voilates the

condition of deadlock

(السؤال ما كان بنفس هالصيغة ولكن كان عن الديدلوك ونفس هالاختيارات)

- A. Mutual exclusion
- B. Hold and Wait
- C. Circular Wait
- D. No Preemption

		4				
1	91	ta.	h	9	C	Δ
		u				

1- The _____ clause is used to delete Database.
A. Drop

B. remove

C. Delete

D.

2- The _____ clause is used to modify structure of DB.

A. alert

В.

C.

D.

3- data distributed سؤال عن

4- data transaction سؤال عن

سؤال وش تسوي الـ Group by

6- select عن المعالقة عن

Network

- 1- Which layer responsible for transfer datagram from node to node by link?
- A. Network
- B. Transport
- C. Data Link
- D. None
- 2- utilization of network address:

3- UDP:

- A. checksum
- B. Three hand shaking

C.

3- DHCP assigned:

- A. Port Number.
- B. IP Address.
- C. Send connection to server
- D.
- 4-
- 5-
- 6-

Network security

- 1- The asymmetric key cryptography can be used in:
- A. digital signature
- D. key exchange
- C. encryption and decryption
- D. All of above
- 2- as a security expert, you received a call from some one said payroll change last month in an organizatio n. What is the crucial components of security is:
- A. message integrity
- B. Confidentiality
- C. Availability
- D.
- 3- caesar cipher سؤال عن

نفك التشفير لجملة

key = 23

يعنى نحرك كل حرف ٢٣ وبالأخير تطلع هالجملة:

A. Encryption Text

4-

Artificial intelligence

1- Algorithms that Expand level i before i+1:

- A. DFS
- B. BFS
- C. U
- D. None

2- Discrete function is

- A. Classification
- B. regression
- C. Bias
- D. None of above

3- Chess with time (السؤال ناقص ولكن يسأل عن الشطرنج)

- A. fully observable
- B. partially observable

4-
$$\sim$$
(P v q)=
A. (\sim p $^{\wedge} \sim$ q)

مراجع لبعض الأسئلة:

https://www.examveda.com/the-output-of-the-following-fraction-of-code-is-java-programming-on-strings-1/

http://alloperatingsystems.blogspot.com/2009/10/multiplechoice-questions-on-operating_01.html?m=1

http://mcqquestion.blogspot.com/2012/08/java-programming-oop-questions-and.html

https://www.sanfoundry.com/computer-sciencequestions-answers/

رابط لجميع مقررات جامعة الامام: https://app.box.com/s/wlrcpuv7bm0qqvxjwx67dj9t aaadfhl2